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STRUCTURE FILE UPDATES: 6 OCT 2002 HIGHEST RN 459408-49-2
 DICTIONARY FILE UPDATES: 6 OCT 2002 HIGHEST RN 459408-49-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
 PROPERTIES for more information. See STNote 27, Searching Properties
 in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d stat que 123

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      C      S      G1
1  C  /  C  /  C  /  S  /  C
   /  /  /  /  /  /  /
6  C  /  C  /  C  /  N  /  C
   /  /  /  /  /  /  /
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 DEFAULT MLEVEL IS ATOM
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
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 L6 STR

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15 8 10 11 12 14

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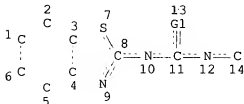
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 VAR G2=NO2/CN/19/16
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Jan Delaval
 Reference Librarian
 Biotechnology & Chemical Library
 CM1 1E07 - 703-308-4498
jan.delaval@usp.gov

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
L8 200 SEA FILE=REGISTRY SUB=L5 SSS FUL L6
L22 STR



VAR G1=O/S
NODE ATTRIBUTES:
NSPEC IS RC AT 14
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 7
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L23 196 SEA FILE=REGISTRY SUB=L8 SSS FUL L22

100.0% PROCESSED 196 ITERATIONS 196 ANSWERS
SEARCH TIME: 00.00.01

=> d his 123-

(FILE 'REGISTRY' ENTERED AT 07:46:03 ON 07 OCT 2002)
L23 196 S L22 FUL SUB=L8
SAV L23 BOB777B/A

FILE 'HCAPLUS' ENTERED AT 07:47:46 ON 07 OCT 2002
L24 14 S L23

FILE 'USPATFULL, USPAT2' ENTERED AT 07:47:47 ON 07 OCT 2002
L25 3 S L23

FILE 'HCAPLUS, USPATFULL' ENTERED AT 07:47:52 ON 07 OCT 2002
L26 16 DUP REM L24 L25 (1 DUPLICATE REMOVED)

FILE 'REGISTRY' ENTERED AT 07:48:00 ON 07 OCT 2002

=> fil hcaplus uspatfull
FILE 'HCAPLUS' ENTERED AT 07:48:20 ON 07 OCT 2002
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FILE 'USPATFULL' ENTERED AT 07:48:20 ON 07 OCT 2002
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> d 126 bib abs hitrn fhitrn retable tot

L26 ANSWER 1 OF 16 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
 AN 1977:517846 HCAPLUS
 DN 87:117846
 TI Antibacterial thiocyanatobenzothiazoles
 IN Pelosi, Stanford Salvatore, Jr.; Alaimo, Robert James
 PA Morton-Norwich Products, Inc., USA
 SO U.S., 3 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|------|----------|-----------------|----------|
| PI | US 4028374 | A | 19770607 | US 1975-628314 | 19751103 |
| GI | | | | | |



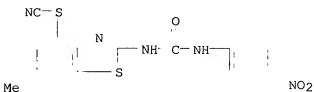
AB Bactericidal (no data) thiocyanatobenzothiazoles I (R = NO₂, R₁ = Me, R₂ = H; R = H, NO₂, R₁ = Cl, R₂ = H; R = Br, R₁ = Bu, R₂ = H; R = Cl, Br, F, R₁ = R₂ = Cl) were prepd. Thus 4-ClC₆H₄NH₂ with treated with NaSCN to give 74% aminobenzothiazole II which was treated with PhNCO to give 79% I (R = R₂ = H, R₁ = Cl).

IT 64002-12-6P 64002-13-7P 64002-14-8P
 64002-16-0P 64002-17-1P 64002-18-2P
 64002-19-3P 64002-20-6P 64117-35-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

IT 64002-12-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

RN 64002-12-6 HCAPLUS

CN Thiocyanic acid, 6-methyl-2-[[[(4-nitrophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)



L26 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2002 ACS
 AN 2002:391683 HCAPLUS
 DN 136:401541
 TI Preparation of arylureidomethylbenzoylaminopropionates as glucagon antagonists/inverse agonists.
 IN Madsen, Peter; Lau, Jesper; Ling, Anthony
 PA Novo Nordisk A/S, Den.; Agouron Pharmaceuticals, Inc.
 SO PCT Int. Appl., 75 pp.

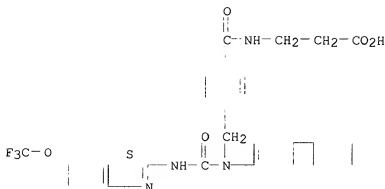
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|--------------|--------------|-----------------|----------|
| PI | WO 2002040444 | A1 | 20020523 | WO 2001-DK759 | 20011115 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| | AU 2002023501 | A5 | 20020527 | AU 2002-23501 | 20011115 |
| PRAI | DK 2000-1731 | A | 20001117 | | |
| | WO 2001-DK759 | W | 20011115 | | |
| AB | Approx. 163 title compds. are claimed. Thus, 4-[3-[(S)-(4-chlorophenyl)ethyl]-1-(4-cyclohexylphenyl)ureidomethyl]benzoic acid (prepn. given) was stirred in DMF with HOBT and EDAC for 30 min. A mixt. of 3-aminopropionic acid Me ester hydrochloride and N,N-diisopropylethylamine in DMF was added and the reaction mixt. was stirred overnight to afford 99% 3-[4-[3-[(S)-(4-chlorophenyl)ethyl]-1-(4-cyclohexylphenyl)ureidomethyl]benzoylamino]propionic acid Me ester. This was saponid. with aq. NaOH in MeOH to give 51% 3-[4-[3-[(S)-(4-chlorophenyl)ethyl]-1-(4-cyclohexylphenyl)ureidomethyl]benzoylamino]propionic acid. Title compds. showed IC50<500 nM in a glucagon receptor binding assay. | | | | |
| IT | 428815-04-7P | 428815-05-8P | 428815-06-9P | | |
| | 428815-07-0P | 428815-15-0P | 428815-16-1P | | |
| | 428815-17-2P | 428815-18-3P | 428815-42-3P | | |
| | 428815-43-4P | 428815-46-7P | 428815-47-8P | | |
| | RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of arylureidomethylbenzoylamino]propionates as glucagon antagonists/inverse agonists) | | | | |
| IT | 428815-04-7P | | | | |
| | RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of arylureidomethylbenzoylamino]propionates as glucagon antagonists/inverse agonists) | | | | |
| RN | 428815-04-7 | HCAPLUS | | | |
| CN | .beta.-Alanine, N-[4-[[4-(4-cyclohexylphenyl)[[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME) | | | | |



RETABLE

| Referenced Author (RAU) | Year (RPY) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Novo Nordisk AS | 1999 | | | WO 9901423 A1 | HCAPLUS |
| Novo Nordisk AS | 2000 | | | WO 0039088 A1 | HCAPLUS |
| Novo Nordisk AS | 2000 | | | WO 0069810 A1 | HCAPLUS |

L26 ANSWER 3 OF 16 HCAPLUS COPYRIGHT 2002 ACS

AN 2001:581863 HCAPLUS

DN 135:152801

TI Preparation of 2-benzothiazolyl ureas as protein kinase inhibitors

IN Cusack, Kevin P.; Scott, Barbara; Arnold, Lee D.; Ericsson, Anna

PA Basf Aktiengesellschaft, Germany

SO PCT Int. Appl., 189 pp.

CODEN: PIXXD2

DT Patent

LA English

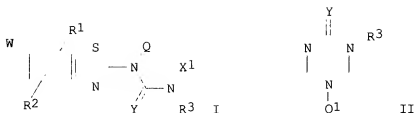
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| PI WO 2001057008 | A1 | 20010809 | WO 2001-US3803 | 20010206 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |

PRAI US 2000-180841P P 20000207

OS MARPAT 135:152801

GI



AB The title compds. [I; Q = H or a bond which is taken together with X¹ and two N atoms to which Q and X¹ are attached and C:Y group to which the two N atoms are attached to form II; Q¹ = alkyl; Y = O, S; W = H, Cl, Br, etc.; X¹ = H, alkyl, hydroxyalkyl or a bond which is taken together with R³ to form pyrrolidino, piperazino or morpholino; R¹, R² = H, halo, OH, etc.; R³ = H, alkyl, aryl, etc.], useful as inhibitors of serine/threonine and tyrosine kinases such as FGFR, PDGFR, KDR, VEGFR-3, Tie-2, Tie-1; Lck, Fyn, Btk, Lyn, Src, cdc2 (cdk1) or Plk-1 (biol. data given), were prepd. and formulated. Thus, reacting 3,5-dimethoxyphenyl isocyanate with 2-amino-6-nitrobenzothiazole in the presence of Et₃N in PhMe afforded I [W = NO₂; Q, X¹, R¹, R² = H; Y = O; R³ = 3,5-(MeO)₂C₆H₃]. In particular, compds. I are useful as inhibitors of tyrosine kinases that are important in hyperproliferative diseases, esp. in cancer and in the process of angiogenesis.

IT 352526-16-0P 352527-59-4P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of 2-benzothiazolyl ureas as protein kinase inhibitors)

IT 352526-10-4P 352526-11-5P 352526-12-6P
 352526-13-7P 352526-14-8P 352526-15-9P
 352526-17-1P 352526-18-2P 352526-19-3P
 352526-20-6P 352526-21-7P 352526-22-8P
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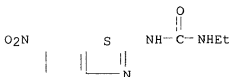
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 2-benzothiazolyl ureas as protein kinase inhibitors)

IT 352526-16-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (prepn. of 2-benzothiazolyl ureas as protein kinase inhibitors)

RN 352526-16-0 HCAPLUS

CN Urea, N-ethyl-N'-(6-nitro-2-benzothiazolyl)- (9CI) (CA INDEX NAME)



RETABLE

| Referenced Author (RAU) | Year (RYP) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Anon | 1995 | 7 | 832 | ASIAN J CHEM, CAPlus | |
| Anon | 1973 | 27 | 829 | CHEM ZVESTI, CAPlus | |
| Anon | 1971 | 40 | 430 | CURR SCI, CAPlus Acc | |
| Anon | 1974 | 43 | 33 | CURR SCI, CAPlus Acc | |
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| Anon | 1968 | 31 | 117 | INDIAN J APPL CHEM, I | |
| Anon | 1990 | 29B | 778 | INDIAN J CHEM SECT B | |
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| Banyu Pharmaceutical Co | 2001 | | | WO 0107411 A | HCAPLUS |
| Bell, F | 1995 | 38 | 4929 | JOURNAL OF MEDICINAL | HCAPLUS |
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| Otsuka Pharm Co Ltd | 1999 | | | JP 11130761 A | HCAPLUS |
| Otsuka Pharm Co Ltd | 1999 | | | JP 11222431 A | HCAPLUS |
| Otsuka Pharmaceutical C | 1998 | | | WO 9804536 A | HCAPLUS |
| Vertex Pharmaceuticals | 1999 | | | WO 9900357 A | HCAPLUS |

AN 2001:319864 HCAPLUS
 DN 134:340357
 TI Novel compounds, specifically aromatic and heteroaromatic ureas and thioureas, useful against parasites and especially against coccidiosis.
 IN Muzi, Sabrina; Abdul-Rahman, Shoaab
 PA New Pharma Research Sweden AB, Swed.
 SO PCT Int. Appl., 72 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-------------------|--|----------|-----------------|----------|
| PI | WO 2001030749 | A1 | 20010503 | WO 2000-SE2091 | 20001027 |
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| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| EP | 1224165 | A1 | 20020724 | EP 2000-973336 | 20001027 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | |
| EP | 1210950 | A1 | 20020605 | EP 2000-850205 | 20001204 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | |
| WO | 2002045751 | A1 | 20020613 | WO 2001-SE2654 | 20011130 |
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| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | |
| PRAI | AU 2002024308 | A5 | 20020618 | AU 2002-24308 | 20011130 |
| | SE 1999-3894 | A | 19991028 | | |
| | WO 2000-SE2091 | W | 20001027 | | |
| | EP 2000-850205 | A | 20001204 | | |
| | WO 2001-SE2654 | W | 20011130 | | |
| OS | MARPAT 134:340357 | | | | |
| GI | | | | | |

I
 S
 CO₂H
 N N
 H H I II

AB The invention relates to novel ureas and thioureas R-C(Y)-R [I; Y = O or S; R's are selected from the pairings: (a) NHR1 and NHR2, or (b) NR3R4 and NR5R6, or (c) NR3R4 and cyclic radical -N:Z-R7; R1, R2 = certain (un)substituted aryl, aralkyl, alkyl, heteroaryl, etc.; R3-R6 = certain

(un)substituted aryl, aralkyl, or alkyl groups; Z = atoms to form ring; R7 = electron-withdrawing substituent] and their tautomers, solvates, radiolabeled derivs., and pharmaceutically acceptable salts. Also disclosed are pharmaceutical compns. contg. I, as well as a method for treatment of parasitic disorders using I. I are esp. well-suited for treatment of coccidiosis, particularly in poultry. Over 200 compds. are listed, and several synthetic examples are given. For instance, reaction of PhNCS with 4-amino-3,5-diiodobenzoic acid in refluxing acetone in the presence of aq. 10% KOH gave 75% thiourea deriv. II. This compd. had an anticoccidial effect in chickens similar to coxistac, but with a shorter duration of infection, reduced feed consumption, and no loss of growth rate.

- IT 321690-01-1P, N-(6-Nitro-1,3-benzothiazol-2-yl)-N'-phenylthiourea
 337531-19-8P, N-(6-Nitro-1,3-benzothiazol-2-yl)-N'-(4-nitrophenyl)urea 337531-22-3P, N-(6-Nitro-1,3-benzothiazol-2-yl)-N'-(4-nitrophenyl)thiourea 337531-23-4P, N-(4-Fluorophenyl)-N'-(6-nitro-1,3-benzothiazol-2-yl)thiourea 337532-48-6P, N,N'-Bis(5-bromo-2-pyridinyl)-N-(6-nitro-1,3-benzothiazol-2-yl)-N'-(4-nitrophenyl)urea 337532-49-7P, N,N'-Bis(6-chloro-2-pyrazinyl)-N-(6-nitro-1,3-benzothiazol-2-yl)-N'-(4-nitrophenyl)thiourea 337532-50-0P, N,N'-Bis(6-chloro-2-pyridinyl)-N-(6-nitro-1,3-benzothiazol-2-yl)-N'-(4-nitrophenyl)urea 337532-51-1P, 4-Nitro-N-(6-nitro-1,3-benzothiazol-2-yl)-N-[[N-[(4-nitrophenyl)sulfonyl]anilino]carbothioyl]benzenesulfonamide 337532-52-2P, 4-Nitro-N-(6-nitro-1,3-benzothiazol-2-yl)-N-[[4-nitro-N-[(4-nitrophenyl)sulfonyl]anilino]carbothioyl]benzenesulfonamide 337532-53-3P, 4-Nitro-N-(6-nitro-1,3-benzothiazol-2-yl)-N-[[4-nitro-N-[(4-nitrophenyl)sulfonyl]anilino]carbonyl]benzenesulfonamide 337532-60-2P, N-(4-Fluorophenyl)-4-nitro-N-[[6-nitro-1,3-benzothiazol-2-yl][(4-nitrophenyl)sulfonyl]amino]carbothioyl]benzenesulfonamide 337532-61-3P, N,N'-Bis(6-chloro-2-pyrazinyl)-N-(4-fluorophenyl)-N'-(6-nitro-1,3-benzothiazol-2-yl)thiourea 337532-62-4P, N,N'-Bis(6-chloro-2-pyridinyl)-N-(4-fluorophenyl)-N'-(6-nitro-1,3-benzothiazol-2-yl)thiourea 337532-64-6P, 4-[[[4-[[[6-Nitro-1,3-benzothiazol-2-yl][(4-nitrophenyl)sulfonyl]amino]carbothioyl][(4-nitrophenyl)sulfonyl]amino]phenyl)sulfonyl]amino]benzoic acid 337532-73-7P, N-[[[6-Nitro-1,3-benzothiazol-2-yl](phenyl)sulfonyl]amino]carbothioyl]-N-(3-nitrophenyl)benzenesulfonamide
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (parasiticide candidate; prepn. of arom. and heteroarom. ureas and thioureas as antiparasitic and anticoccidial agents)
 IT 321690-01-1P, N-(6-Nitro-1,3-benzothiazol-2-yl)-N'-phenylthiourea
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (parasiticide candidate; prepn. of arom. and heteroarom. ureas and thioureas as antiparasitic and anticoccidial agents)
 RN 321690-01-1 HCAPLUS
 CN Thiourea, N-(6-nitro-2-benzothiazolyl)-N'-phenyl- (9CI) (CA INDEX NAME)

O2N

S

NH-C-NHPh

N

RETABLE

| Referenced Author (RAU) | Year (RPY) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Bayer Ag | 1994 | | | EP 0597304 A1 | HCAPLUS |
| Ciba Ag | 1969 | | | DE 1802739 A | HCAPLUS |
| Eli Lilly And Company | 1995 | | | WO 9524900 A1 | HCAPLUS |
| Farbwerke Hoechst Ag | 1975 | | | DE 2334355 A1 | HCAPLUS |
| Frederick, K | 1972 | | | US 3647819 A | HCAPLUS |
| Frederick, K | 1973 | | | US 3711610 A | HCAPLUS |
| Graham, T | 1975 | | | US 3867544 A | HCAPLUS |
| Harold, J | 1966 | | | US 3284433 A | HCAPLUS |
| Instytut Przemyslu Farm | 1983 | | | PL B1126634 | |
| Leslie, M | 1987 | | | US 4659708 A | HCAPLUS |
| Meija Seika Kaisha Ltd | 1978 | | | JP 25-3034928 A | |
| Rorer International Ove | 1983 | | | WO 8300625 A1 | HCAPLUS |
| The Regents Of The Univ | 1994 | | | WO 9406280 A1 | HCAPLUS |
| Zahner, H | 1991 | 141 | 821 | Arzneim-Forsch | HCAPLUS |

L26 ANSWER 5 OF 16 HCAPLUS COPYRIGHT 2002 ACS

AN 2000:824211 HCAPLUS

DN 134:4764

TI Preparation of 3-(benzoylamino)propionic acid derivatives as glucagon antagonists/inverse agonists

IN Ling, Anthony; Plewe, Michael Bruno; Truesdale, Larry Kenneth; Lau, Jesper; Madsen, Peter; Sams, Christian; Behrens, Carsten; Vagner, Josef; Christensen, Inge Thoger; Lundt, Behrend Frederik; Sidelmann, Ulla Grove; Thogersen, Henning

PA Novo Nordisk A/S, Den.; Agouron Pharmaceuticals, Inc.

SO PCT Int. Appl., 564 pp.

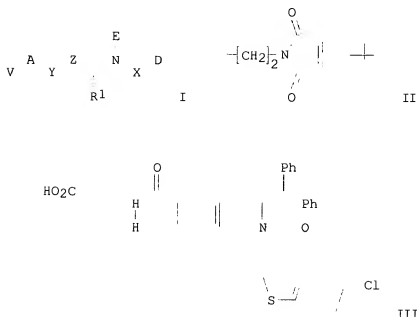
CODEN: PIXXD2

DT Patent

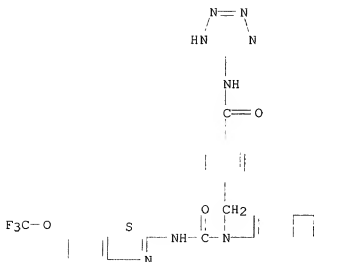
LA English

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| PI WO 2000069810 | A1 | 20001123 | WO 2000-DK264 | 20000516 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| EP 1183229 | A1 | 20020306 | EP 2000-926725 | 20000516 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO | | | | |
| BR 2000010651 | A | 20020319 | BR 2000-10651 | 20000516 |
| NO 2001005607 | A | 20020117 | NO 2001-5607 | 20011116 |
| PRAI DK 1999-684 | A | 19990517 | | |
| DK 2000-478 | A | 20000321 | | |
| WO 2000-DK264 | W | 20000516 | | |
| OS MARPAT 134:4764 | | | | |
| GI | | | | |



- AB The title compds. [I; V = CO₂R₂, CONR₂R₃, CONR₂OR₃, etc. (wherein R₂, R₃ = H, alkyl); A = (CH₂)_n(CR₈R₉)bNR₇, (CR₈R₉)b(CH₂)_nNR₇, (CR₈R₉)b(CH₂)_n, etc. (b = 0-1; n = 0-3; R₇ = H, alkyl, (cycloalkyl)alkyl; R₈, R₉ = H, alkyl); Y = CO, SO₂, O, a bond; Z = (un)substituted phenylene, divalent radical derived from 5-6 membered heteroarom. ring contg. 1-2 heteroatoms selected from N, O and S; or AYZ together = II; R₁ = H, alkyl; X = CO(CR₁₃R₁₄)r(CH₂)_s, SO₂(CR₁₃R₁₄)r(CH₂)_s, CO₂(CR₁₃R₁₄)r(CH₂)_s, etc. (r = 0-1; s = 0-3; R₁₃, R₁₄ = H, alkyl); D = (un)substituted Ph, pyridyl, cyclopropyl, etc.; E = (un)substituted quinolinyl, 2,5-dioxopiperidinyl, biphenylalkyl, etc.] which act to antagonize the action of the glucagon hormone on the glucagon receptor (data given), and therefore may be suitable for the treatment and/or prevention of any glucagon-mediated conditions and diseases such as hyperglycemia, Type 1 diabetes, Type 2 diabetes and obesity, were prepd. and formulated. E.g., a multi-step solid phase synthesis of III was given. Compds. I are effective at 0.05-10 mg/kg/day.
- IT 307985-93-9P 307985-94-0P 307988-66-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 3-(benzoylamino)propionic acid derivs. as glucagon antagonists/inverse agonists)
- IT 307985-93-9P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of 3-(benzoylamino)propionic acid derivs. as glucagon antagonists/inverse agonists)
- RN 307985-93-9 HCAPLUS
 CN Benzamide, 4-[[[(4-cyclohexylphenyl)[[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]amino]methyl]-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)



RETABLE

| Referenced Author (RAU) | Year (RPY) | VOL (RVL) | PG (RPG) | Referenced Work (RWK) | Referenced File |
|----------------------------|---------------|--------------|-------------|--------------------------|--------------------|
| Beecham Group Limited | 1979 | | | EP 0000816 A1 | HCAPLUS |
| Mitsui Chemicals Inc | 1998 | | | EP 0847992 A1 | HCAPLUS |
| Novo Nordisk AS | 1999 | | | WO 9901423 A1 | HCAPLUS |

L26 ANSWER 6 OF 16 HCAPLUS COPYRIGHT 2002 ACS

AN 1988:492995 HCAPLUS

DN 109:92995

TI N-Benzothiazolyl amides, their preparation, and their use as insecticides

IN Kume, Toyohiko; Tsuboi, Shinichi; Sasaki, Shoko; Yanagi, Akihiko; Hattori, Yumi; Yagi, Shigeki; Sirrenberg, Wilhelm; Becker, Benedikt

PA Nihon Tokushu Noyaku Seizo K. K., Japan

SO Eur. Pat. Appl., 48 pp.

CODEN: EPXXDW

DT Patent

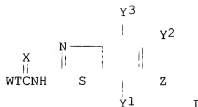
LA German

FAN.CNT 1

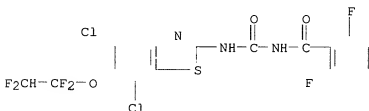
| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------------------------|------|----------|-----------------|----------|
| PI | EP 261459 | A2 | 19880330 | EP 1987-112784 | 19870902 |
| | EP 261459 | A3 | 19880511 | | |
| | R: BE, CH, DE, FR, GB, IT, LI, NL | | | | |
| | JP 63190880 | A2 | 19880808 | JP 1987-60129 | 19870317 |
| PRAI | JP 1986-210760 | | 19860909 | | |
| | JP 1987-60129 | | 19870317 | | |

OS MARPAT 109:92995

GI

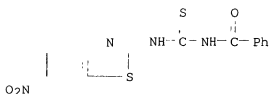


- AB Benzothiazolylamides I [X = O, S; T = bond, CONH (C connected to W); Y1-Y3 = H, halo, alkyl; Z = halo, (halo)alkoxy, aralkyloxy, alkylthio, -sulfinyl, -sulfonyl, aryl, heterocycloxy, etc.; W = substituted Ph, pyridyl; restrictions apply], useful as insecticides, were prepd. A mixt. of 2-amino-5,7-dichloro-6-(1,1,2,2-tetrafluoroethoxy)benzothiazole, PhCl, and 2,6-F2C6H3COC1 was refluxed 3 h to give I (WT = 2,6-F2C6H3, X = O, Y1 = Y2 = Cl, Y3 = H, Z = OCF2CHF2). At 8 ppm, I (WT = 2,6-F2C6H3, X = O, Y1-Y3 = H, Z = Ph) killed 100% *Plutella maculipennis* on cabbage.
- IT 115737-65-0P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as insecticide)
- IT 115737-65-0P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of, as insecticide)
- RN 115737-65-0 HCAPLUS
- CN Benzamide, N-[[[5,7-dichloro-6-(1,1,2,2-tetrafluoroethoxy)-2-benzothiazolyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)



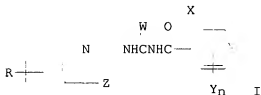
- L26 ANSWER 7 OF 16 HCAPLUS COPYRIGHT 2002 ACS
- AN 1991:134832 HCAPLUS
- DN 114:134832
- TI Cobalt(II), nickel(II) and copper(II) complexes of some N-benzoyl-N'-aryl or heterocyclic-substituted thioureas
- AU Sarkis, George Y.
- CS Coll. Sci., Al-Mustansiriya Univ., Baghdad, Iraq
- SO J. Iraqi Chem. Soc. (1988), 13(1), 103-15
- CODEN: JICSDK; ISSN: 0379-8321
- DT Journal
- LA English
- AB ArNHC(S)NHBz (HL; Ar = 2-, 3-, 4-MeOC6H4, 2- and 3-pyridyl, 5-nitro-2-pyridyl, 2-thiazoyl, 2-benzothiazolyl, 6-chloro- and 6-nitro-2-benzothiazolyl), and RRINC(S)NHBz (HL1 = R = 2-PhBzNHC(S)NH, R1-2-pyridyl) and CoL2, NiL21 and ML22 (M = Cu, Ni, HL2 = HL (R = 6-nitro-2-benzothiazolyl) were prepd. The ligands and complexes were characterized by IR spectra. The ligands are bidentate and coordinate

through S and N atoms.
 IT 132629-14-2P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and IR spectrum of)
 IT 132629-14-2P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and IR spectrum of)
 RN 132629-14-2 HCAPLUS
 CN Benzamide, N-[[[6-nitro-2-benzothiazolyl]amino]thioxomethyl]- (9CI) (CA
 INDEX NAME)

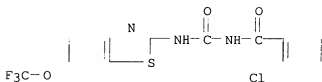


L26 ANSWER 8 OF 16 HCAPLUS COPYRIGHT 2002 ACS
 AN 1987:67297 HCAPLUS
 DN 106:67297
 TI Preparation of benzothiazolyl- and benzoxazolylbenzoylureas as pesticides
 IN Kume, Toyohiko; Tsuboi, Shinichi; Isono, Kunihiro; Sasaki, Shoko; Hattori,
 Yumi
 PA Nihon Tokushu Noyaku Seizo K. K., Japan
 SO Eur. Pat. Appl., 14 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | EP 198244 | A2 | 19861022 | EP 1986-103540 | 19860315 |
| | EP 198244 | A3 | 19870729 | | |
| | R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE | | | | |
| | JP 61225169 | A2 | 19861006 | JP 1985-65019 | 19850330 |
| | CN 86101870 | A | 19870121 | CN 1986-101870 | 19860324 |
| | DK 8601427 | A | 19861001 | DK 1986-1427 | 19860326 |
| | BR 8601374 | A | 19861202 | BR 1986-1374 | 19860326 |
| | ES 553448 | A1 | 19870601 | ES 1986-553448 | 19860326 |
| | AU 8655330 | A1 | 19861002 | AU 1986-55330 | 19860327 |
| | ZA 8602322 | A | 19861126 | ZA 1986-2322 | 19860327 |
| | DD 248276 | A5 | 19870805 | DD 1986-288444 | 19860327 |
| | HU 41235 | A2 | 19870428 | HU 1986-1322 | 19860328 |
| PRAI | JP 1985-65019 | | 19850330 | | |
| OS | CASREACT 106:67297 | | | | |
| GI | | | | | |



- AB The title compds. (I; X, Y = halo, alkyl; W, Z = O, S; R = haloalkyl, alkoxy, alkylthio, alkylsulfinyl, alkylsulfonyl; n = 0-2), useful as pesticides, are prepd. KSCN and 2-ClC₆H₄COCl reacted to give 2-ClC₆H₄COSCN which was treated with 2-amino-6-(trifluoromethyl)benzothiazole to give I (R = 6-CF₃, W = S, X = Cl, Y = H, Z = S) (II). At 2 ppm II exterminated larvae of *Spodoptera litura* on cabbage leaves.
- IT **106580-16-9P 106580-17-0P 106580-18-1P**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as insecticide)
- IT **106580-16-9P**
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of, as insecticide)
- RN **106580-16-9 HCAPLUS**
- CN Benzamide, 2-chloro-N-[[[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]- (9CI) (CA INDEX NAME)



L26 ANSWER 9 OF 16 HCAPLUS COPYRIGHT 2002 ACS

AN 1983:198237 HCAPLUS

DN 98:198237

TI Benzothiazole derivatives

PA Kyowa Hakko Kogyo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 12 pp.

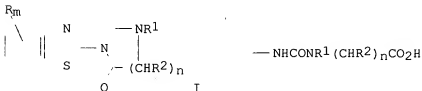
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--------------------|------|----------|-----------------|----------|
| PI | JP 57175189 | A2 | 19821028 | JP 1981-60368 | 19810421 |
| | JP 63032073 | B4 | 19880628 | | |
| OS | CASREACT 98:198237 | | | | |
| GI | | | | | |



II

- AB Thirty benzothiazole derivs. I [R = alkyl, alkoxy, halo, NO₂; R₁ = H, alkyl, alkanoyl, alkoxy-carbonyl; R₂ = H, alkyl, MeSCH₂CH₂, aralkyl; R₁R₂ = (CH₂)_p (p = 3, 4); m = 0-4; n = 1, 2] were prepd. by cyclization of II.

I had platelet aggregation inhibitory, hypotensive, herbicidal, and antibacterial activities (no data). Thus, stirring II (Rm = 6-EtO, R1 = Me, R2 = H, m = n = 1) in Ac2O 2 h at 70.degree. gave 90.7% I (Rm = 6-EtO, R1 = Me, R2 = H, m = n = 1).

IT **84426-92-6P 84426-99-3P 84427-14-5P**

84427-15-6P

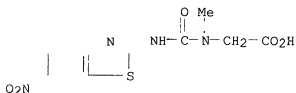
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT **84426-92-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 84426-92-6 HCAPLUS

CN Glycine, N-methyl-N-[[[6-nitro-2-benzothiazolyl]amino]carbonyl]- (9CI)
(CA INDEX NAME)



L26 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2002 ACS

AN 1983:72084 HCAPLUS

DN 98:72084

TI Benzothiazolyl amino acid derivatives

PA Kyowa Hakko Kogyo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------|------|----------|-----------------|----------|
| PI | JP 57149280 | A2 | 19820914 | JP 1981-34231 | 19810310 |
| GI | | | | | |



AB Forty-five title amino acids (I; R = H, alkyl, alkoxy, halo, O2N; R1 = HO, alkoxy, alkylamino; Z = amino acid residue; n = 1-4), effective herbicides, fungicides, anticholesteremics, and antiarrhythmics (no data), were prepd. Thus, a mixt. of 0.074 mol I (R = H, R1Z = PhO) and 0.147 mol glycine in pyridine was heated 48 h at 70.degree. to give 83.9% I (R = H, R1 = HO, Z = HNCH2CO).

IT **84426-92-6P 84426-99-3P 84427-14-5P**

84427-15-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

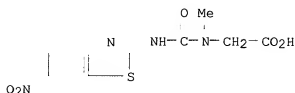
IT **84426-92-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)

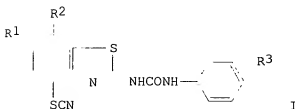
(prepn. of)

RN 84426-92-6 HCAPLUS

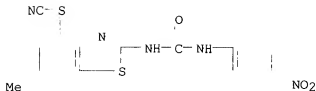
CN Glycine, N-methyl-N-[[(6-nitro-2-benzothiazolyl)amino]carbonyl]- (9CI)
(CA INDEX NAME)



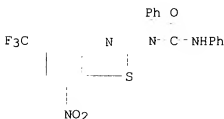
LZ6 ANSWER 11 OF 16 HCAPLUS COPYRIGHT 2002 ACS
 AN 1978:152479 HCAPLUS
 DI 88:152479
 TI Synthesis and antibacterial evaluation of 2-(substituted
 phenylureido)-4-thiocyanatobenzothiazoles
 AU Alaimo, Robert J.; Pelosi, Stanford S.; Freedman, Raymond
 CS Norwich-Eaton Pharm. Div., Morton-Norwich Prod., Inc., Norwich, N. Y., USA
 SO J. Pharm. Sci. (1978), 67(2), 281-2
 CODEN: JPMSAE; ISSN: 0022-3549
 DT Journal
 LA English
 GI



| | |
|----|---|
| AB | The synthesis and antibacterial evaluation of a no. of 2-(phylureido)-4-thiocyanoatobenzothiazoles I (R1 = Me, Cl, Bu; R2 = H, Cl; R3 = 4-NO2, 4-Cl, 4-Br, 4-F, 3,4-Cl2) are described. The more active compds. against the test organisms in vitro generally were those substituted with halogens on the Ph and benzothiazole rings. |
| IT | 64002-12-6P 64002-13-7P 64002-16-0P 64002-17-1P 64002-18-2P 64002-19-3P 64002-20-6P 66134-65-4P RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and bactericidal activity of) |
| IT | 64002-12-6P RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and bactericidal activity of) |
| RN | 64002-12-6 HCAPLUS |
| CN | Thiocyanoic acid, 6-methyl-2-[[[(4-nitrophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME) |



- L26 ANSWER 12 OF 16 HCAPLUS COPYRIGHT 2002 ACS
 AN 1974:108420 HCAPLUS
 DN 80:108420
 TI Benzothiazole N-oxides. III. Synthesis of ethyl 1-(arylimino) (SIV)benzothiazole-2-carboxylates
 AU Wagner, Klaus; Ley, Kurt; Oehlmann, Linthard
 CS Wiss. Hauptlab., Bayer A.-G., Leverkusen, Ger.
 SO Chem. Ber. (1974), 107(2), 414-23
 CODEN: CHBEAM
 DT Journal
 LA German
 GI For diagram(s), see printed CA Issue.
 AB The benzothiazoles (I; R = NO2, CF3; R1 = NO2, CF3, Cl; R2 = H, Cl, CF3; R3 = H, Cl, NO2; R4 = H, Cl) were prepd. in 33-63% yield by reaction of the N-oxides II with PhNCO or 3,4,6-R2R3R4C6H2N:SO with elimination of CO2 or SO2, resp. In 2 cases, 10-15% benzimidazobenzothiazoles III (R = NO2, R1 = Cl and R = CF3, R1 = NO2) were simultaneously formed. The structures of I were proven by spectroscopic data and chem. reactions.
 IT 51658-71-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 IT 51658-71-0P
 RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)
 RN 51658-71-0 HCAPLUS
 CN Urea, N-[7-nitro-5-(trifluoromethyl)-2-benzothiazolyl]-N,N'-diphenyl- (9CI) (CA INDEX NAME)



- L26 ANSWER 13 OF 16 HCAPLUS COPYRIGHT 2002 ACS
 AN 1974:82772 HCAPLUS
 DN 80:82772
 TI Benzothiazole compounds. III. Synthesis and biological activity of substituted N-(2-benzothiazolyl)ureas and benzothiazolyldihydrouracils
 AU Sutoris, V.; Halgas, J.
 CS Fac. Nat. Sci., Komensky Univ., Bratislava, Czech.
 SO Chem. Zvesti (1973), 27(6), 829-33
 CODEN: CHZVAN
 DT Journal
 LA English
 GI For diagram(s), see printed CA Issue.
 AB N-(2-Benzothiazolyl)-N'-(3-bromopropionyl)ureas (I) were prepd. by treatment of 4,6-substituted 2-aminobenzothiazoles with Br(CH2)2CONCO.

Base catalyzed cyclization of I gave II (R = Cl, Br).

IT 51335-48-9P 51335-49-0P 51335-52-5P

51335-53-6P

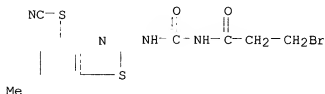
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 51335-48-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 51335-48-9 HCAPLUS

CN Thiocyanic acid, 2-[[[(3-bromo-1-oxopropyl)amino]carbonyl]amino]-6-methyl-4-benzothiazolyl ester (9CI) (CA INDEX NAME)



L26 ANSWER 14 OF 16 HCAPLUS COPYRIGHT 2002 ACS

AN 1970:425446 HCAPLUS

DN 73:25446

TI Microbicidal 2-acylaminobenzothiazoles

IN Janiak, Stefan

PA CIBA Ltd.

SO Ger. Offen., 29 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| PI | DE 1953149 | A | 19700506 | DE 1969-1953149 | 19691022 |
| | CH 505543 | A | 19710415 | CH 1968-505543 | 19681101 |
| | IL 33221 | A1 | 19730629 | IL 1969-33221 | 19691020 |
| | US 3725428 | A | 19730403 | US 1969-868589 | 19691022 |
| | GB 1290388 | A | 19720927 | GB 1969-1290388 | 19691027 |
| | FR 2022369 | A5 | 19700731 | FR 1969-37369 | 19691030 |
| | BE 741093 | A | 19700430 | BE 1969-741093 | 19691031 |
| | NL 6916457 | A | 19700506 | NL 1969-16457 | 19691031 |
| | AT 295922 | B | 19720125 | AT 1969-10270 | 19691031 |
| | DK 128742 | B | 19740624 | DK 1969-5753 | 19691031 |
| | CS 164834 | P | 19751128 | CS 1969-7208 | 19691031 |
| | RO 61385 | P | 19761215 | RO 1969-61433 | 19691031 |
| | US 3810988 | A | 19740514 | US 1973-331721 | 19730212 |
| PRAI | CH 1968-16333 | | 19681101 | | |
| | US 1969-868589 | | 19691022 | | |

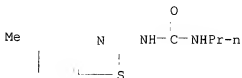
GI For diagram(s), see printed CA Issue.

AB The microbicidal title compds. (I) were prepd. in 91-7% yield from the corresponding 2-amino compds. either with MeNCO, or dialkylcarbamoyl chlorides, or chloroformates. Among approx. 50 compds. prepd. were the following I (R, R1, R2, R3, and R4 given): NHMe, H, H, OEt, H; NMe2, H, H, OEt, H; NHPr, H, H, H, H; NHMe, Cl, H, H, H; NHMe, Cl, H, H, H; NHPr, H, H, CO2Et, H; NHPr, H, H, OMe, H; NHPr, Cl, H, H, H; NMe2, H, H, OMe, H; OEt, H, H, H, H; OPr-iso, H, H, H, H; OMe, H, H, H, H. I were microbicidal against Erysiphe cichoracearum, Uromyces phaseoli, and Botrytis cinerea. Compositions contg. I were reported.

IT 28956-42-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. of)
 IT 28956-42-5P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN 28956-42-5 HCAPLUS
 CN Urea, 1-(5-methyl-7-nitro-2-benzothiazolyl)-3-propyl- (8CI) (CA INDEX NAME)

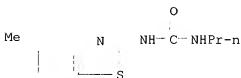
NO₂

L26 ANSWER 15 OF 16 USPATFULL
 AN 74:23986 USPATFULL
 TI CONTROL OF PHYTOPATHOGENIC FUNGI WITH N-BENZOTHIAZAE-2-YL N- PROPYLUREA
 IN Janiak, Stefan, Basel, Switzerland
 PA Ciba-Geigy AG, Basel, Switzerland (non-U.S. corporation)
 PI US 3810988 19740514
 AI US 1973-331721 19730212 (5)
 RLI Division of Ser. No. US 1969-868589, filed on 22 Oct 1969, now patented,
 Pat. No. US 3725428
 PRAI CH 1968-16333 19681101
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Meyers, Albert T.; Assistant Examiner: Robinson, Allen J.
 LREP Rabin, Frederick H.
 CLMN Number of Claims: 4
 DRWN No Drawings
 LN.CNT 292
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB Phytopathogenic fungi are controlled by the use of compounds of the formula ##SPC1##

In which R.sub.9 is C.sub.3 alkyl.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 28956-42-5P
 (prepn. of)
 IT 28956-42-5P
 (prepn. of)
 RN 28956-42-5 USPATFULL
 CN Urea, 1-(5-methyl-7-nitro-2-benzothiazolyl)-3-propyl- (8CI) (CA INDEX NAME)

NO₂

L26 ANSWER 16 OF 16 USPATFULL
 AN 73:14147 USPATFULL
 TI N-BENZOTHAIAZOL-2-YL-N'-PROPYLUREAS
 IN Janiak, Stefan, Basel, Switzerland
 PA Ciba-Geigy AG, Basel, Switzerland (non-U.S. corporation)
 PI US 3725428 19730403
 AI US 1969-868589 19691022 (4)
 PRAI CH 1968-16333 19681101
 DT Utility
 FS Granted
 EXNAM Primary Examiner: Mazel, Alex; Assistant Examiner: Gallagher, R. J.
 LREP Goldsmith; Harry, Kolodny; Joseph G., Monaco; Mario A.
 CLMN Number of Claims: 3
 DRWN No Drawings
 LN.CNT 291
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The invention comprises compounds of the general formula ##SPC1##

In which Y.sub.1, Y.sub.2, Y.sub.3, Y.sub.4, Y.sub.5, R.sub.1 and R.sub.2 have the meanings given below, their process of manufacture, their use as active ingredients in microbiocidal agents and their methods of use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 28956-42-5P

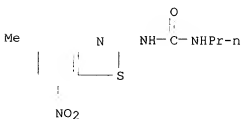
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IT 28956-42-5P

(prepn. of)

RN 28956-42-5 USPATFULL

CN Urea, 1-(5-methyl-7-nitro-2-benzothiazolyl)-3-propyl- (8CI) (CA INDEX NAME)



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DICTIONARY FILE UPDATES: 6 OCT 2002 HIGHEST RN 459408-49-2

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Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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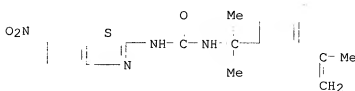
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CN Urea, N-[1-methyl-1-[3-(1-methylethenyl)phenyl]ethyl]-N'-(6-nitro-2-benzothiazolyl)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

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RN 444932-33-6 REGISTRY

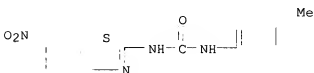
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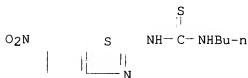
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LC STN Files: CHEMCATS



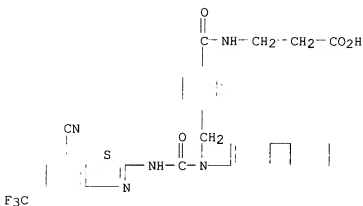
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 RN 438479-57-3 REGISTRY
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 FS 3D CONCORD
 MF C12 H14 N4 O2 S2
 SR Chemical Library
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L23 ANSWER 6 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 428815-47-8 REGISTRY
 CN .beta.-Alanine, N-[4-[[[7-cyano-5-(trifluoromethyl)-2-benzothiazolyl]amino]carbonyl](4-cyclohexylphenyl)amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C33 H30 F3 N5 O4 S
 SR CA
 LC STN Files: CA, CAPLUS



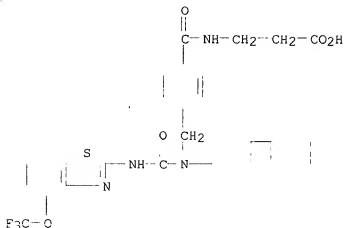
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 136:401541

L23 ANSWER 12 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 428815-16-1 REGISTRY
 CN .beta.-Alanine, N-[4-[[[4-(1-cyclohexen-1-yl)phenyl] [[4-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C32 H29 F3 N4 O5 S

SR CA
LC STN Files: CA, CAPLUS

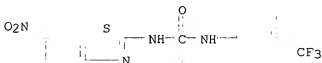


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

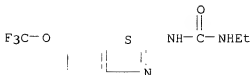
REFERENCE 1: 136:401541

L23 ANSWER 18 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 379702-12-2 REGISTRY
CN Urea, N-(6-nitro-2-benzothiazolyl)-N'-[3-(trifluoromethyl)phenyl]- (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C15 H9 F3 N4 O3 S
SR Chemical Library
LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L23 ANSWER 19 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 352529-50-1 REGISTRY
CN Urea, N-ethyl-N'-[6-(trifluoromethoxy)-2-benzothiazolyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H10 F3 N3 O2 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

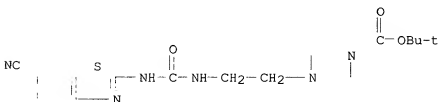


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 25 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 352529-31-8 REGISTRY
CN 1-Piperazinecarboxylic acid, 4-[2-[[[(6-cyano-2-benzothiazolyl)amino]carbonyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI)
(CA INDEX NAME)
FS 3D CONCORD
MF C20 H26 N6 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

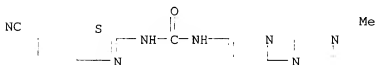


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 30 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 352529-26-1 REGISTRY
CN Urea, N-(6-cyano-2-benzothiazolyl)-N'-[6-(4-methyl-1-piperazinyl)-3-pyridinyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H19 N7 O S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

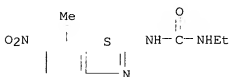


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 34 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 352527-74-3 REGISTRY
CN Urea, N-ethyl-N'-(7-methyl-6-nitro-2-benzothiazolyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H12 N4 O3 S
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

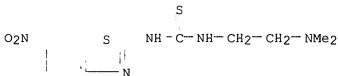


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 50 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 352527-22-1 REGISTRY
CN Thiourea, N-[2-(dimethylamino)ethyl]-N'-(6-nitro-2-benzothiazolyl)- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H15 N5 O2 S2
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

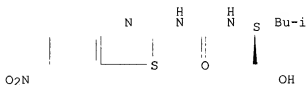
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 75 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 352526-92-2 REGISTRY
CN Urea, N-[(1S)-1-(hydroxymethyl)-3-methylbutyl]-N'-(6-nitro-2-

benzothiazolyl)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C14 H18 N4 O4 S
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.

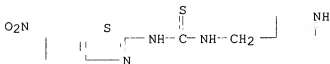


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 100 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 352526-66-0 REGISTRY
 CN Thiourea, N-(6-nitro-2-benzothiazolyl)-N'-(4-piperidinylmethyl)- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H17 N5 O2 S2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER

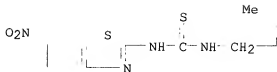


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 125 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 352526-35-3 REGISTRY
 CN Thiourea, N-[(2-methylphenyl)methyl]-N'-(6-nitro-2-benzothiazolyl)- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H14 N4 O2 S2
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 135:152801

L23 ANSWER 151 OF 196 REGISTRY COPYRIGHT 2002 ACS

RN 337532-73-7 REGISTRY

CN Benzenesulfonamide, N-(6-nitro-2-benzothiazolyl)-N-[[[(3-nitrophenyl)(phenylsulfonyl)amino]thioxomethyl]- (9CI) (CA INDEX NAME)

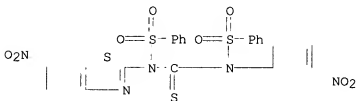
OTHER NAMES:

CN N-[[[(6-Nitro-1,3-benzothiazol-2-yl)(phenylsulfonyl)amino]carbothioyl]-N-(3-nitrophenyl)benzenesulfonamide

MF C26 H17 N5 O8 S4

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:340357

L23 ANSWER 155 OF 196 REGISTRY COPYRIGHT 2002 ACS

RN 337532-60-2 REGISTRY

CN Benzenesulfonamide, N-(4-fluorophenyl)-4-nitro-N-[[[(6-nitro-2-benzothiazolyl][(4-nitrophenyl)sulfonyl]amino]thioxomethyl]- (9CI) (CA INDEX NAME)

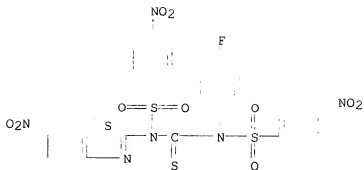
OTHER NAMES:

CN N-(4-Fluorophenyl)-4-nitro-N-[[[(6-nitro-1,3-benzothiazol-2-yl][(4-nitrophenyl)sulfonyl]amino]carbothioyl]benzenesulfonamide

MF C26 H15 F N6 O10 S4

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:340357

L23 ANSWER 160 OF 196 REGISTRY COPYRIGHT 2002 ACS

RN 337532-49-7 REGISTRY

CN Thiourea, N,N'-bis(6-chloropyrazinyl)-N-(6-nitro-2-benzothiazolyl)-N'-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

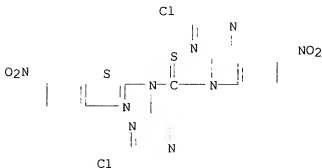
CN N,N'-Bis(6-chloro-2-pyrazinyl)-N-(6-nitro-1,3-benzothiazol-2-yl)-N'-(4-nitrophenyl)thiourea

FS 3D CONCORD

MF C22 H11 Cl2 N9 O4 S2

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:340357

L23 ANSWER 165 OF 196 REGISTRY COPYRIGHT 2002 ACS

RN 321690-01-1 REGISTRY

CN Thiourea, N-(6-nitro-2-benzothiazolyl)-N'-phenyl- (9CI) (CA INDEX NAME)

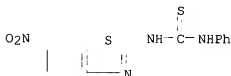
OTHER NAMES:

CN N-(6-Nitro-1,3-benzothiazol-2-yl)-N'-phenylthiourea


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FS      3D CONCORD
MF      C14 H10 N4 O2 S2
SR      Chemical Library
LC      STN Files:  CA, CAPLUS, CHEMCATS

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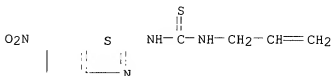


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

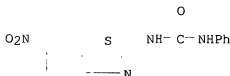
REFERENCE 1: 134:340357

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L23 ANSWER 166 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 321689-98-9 REGISTRY
CN Thiourea, N-(6-nitro-2-benzothiazolyl)-N'-2-propenyl- (9CI) (CA INDEX
NAME)
FS 3D CONCORD
MF C11 H10 N4 O2 S2
SR Chemical Library
LC STN Files: CHEMCATS
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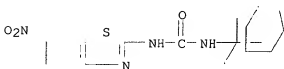
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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L23 ANSWER 167 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 313403-17-7 REGISTRY
CN Urea, N-(6-nitro-2-benzothiazolyl)-N'-phenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H10 N4 O3 S
SR Chemical Library
LC STN Files: CHEMCATS
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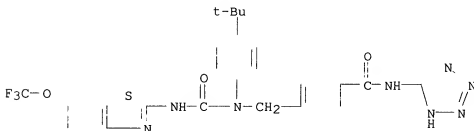
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L23 ANSWER 168 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 312525-44-3 REGISTRY
 CN Urea, N-(6-nitro-2-benzothiazolyl)-N'-tricyclo[3.3.1.1^{3,7}]dec-1-yl- (9CI)
 (CA INDEX NAME)
 FS 3D CONCORD
 MF C18 H20 N4 O3 S
 SR Chemical Library
 LC STN Files: CHEMCATS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L23 ANSWER 169 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 307988-66-5 REGISTRY
 CN Benzamide, 4-[[[4-(1,1-dimethylethyl)phenyl][[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]amino]methyl]-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C28 H25 F3 N8 O3 S
 SR CA
 LC STN Files: CA, CAPLUS

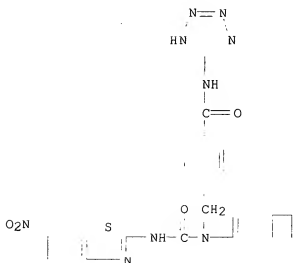


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:4764

L23 ANSWER 170 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 307985-94-0 REGISTRY
 CN Benzamide, 4-[[[4-(cyclohexylphenyl)[[6-nitro-2-benzothiazolyl]amino]carbonyl]amino]methyl]-N-1H-tetrazol-5-yl- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C29 H27 N9 O4 S
 SR CA
 LC STN Files: CA, CAPLUS

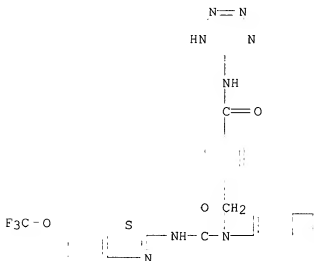


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:4764

L23 ANSWER 171 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 307985-93-9 REGISTRY
CN Benzamide, 4-[[[4-cyclohexylphenyl][[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]amino]methyl]-N-1H-tetrazol-5-yl- (9CI) (CA)
INDEX NAME)
FS 3D CONCORD
MF C30 H27 F3 N8 O3 S
SR CA
LC STN Files: CA, CAPLUS

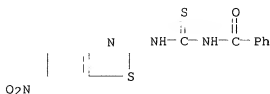


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 134:4764

L23 ANSWER 172 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 132629-14-2 REGISTRY
 CN Benzamide, N-[[[6-nitro-2-benzothiazolyl]amino]thioxomethyl]- (9CI) (CA
 INDEX NAME)
 FS 3D CONCORD
 MF C15 H10 N4 O3 S2
 SR CA
 LC STN Files: CA, CAPLUS

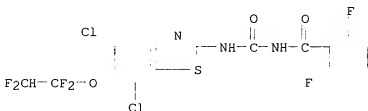


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 114:134832

L23 ANSWER 173 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 115737-65-0 REGISTRY
 CN Benzamide, N-[[[5,7-dichloro-6-(1,1,2,2-tetrafluoroethoxy)-2-benzothiazolyl]amino]carbonyl]-2,6-difluoro- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C17 H7 Cl2 F6 N3 O3 S
 SR CA
 LC STN Files: CA, CAPLUS

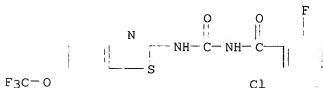


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 109:92995

L23 ANSWER 174 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 106580-18-1 REGISTRY
 CN Benzamide, 2-chloro-6-fluoro-N-[[[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H8 Cl F4 N3 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

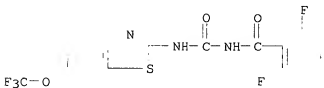


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:67297

L23 ANSWER 175 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 106580-17-0 REGISTRY
 CN Benzamide, 2,6-difluoro-N-[[[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H8 F5 N3 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

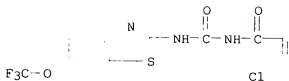


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:67297

L23 ANSWER 176 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 106580-16-9 REGISTRY
 CN Benzamide, 2-chloro-N-[[[6-(trifluoromethoxy)-2-benzothiazolyl]amino]carbonyl]- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C16 H9 Cl F3 N3 O3 S
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

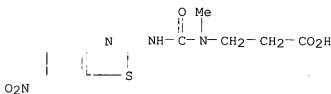


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 106:67297

L23 ANSWER 177 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 84427-15-6 REGISTRY
CN .beta.-Alanine, N-methyl-N-[[(6-nitro-2-benzothiazolyl)amino]carbonyl]-
(9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H12 N4 O5 S
LC STN Files: CA, CAPLUS, TOXCENTER



O2N

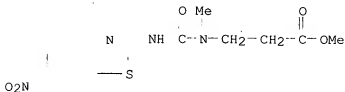
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 98:198237

REFERENCE 2: 98:72084

L23 ANSWER 178 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 84427-14-5 REGISTRY
CN .beta.-Alanine, N-methyl-N-[[(6-nitro-2-benzothiazolyl)amino]carbonyl]-,
methyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C13 H14 N4 O5 S
LC STN Files: CA, CAPLUS, TOXCENTER



O2N

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

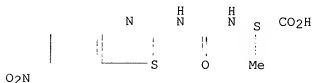
2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 98:198237

REFERENCE 2: 98:72084

L23 ANSWER 179 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 84426-99-3 REGISTRY
CN L-Alanine, N-[[[(6-nitro-2-benzothiazolyl)amino]carbonyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H10 N4 O5 S
LC STN Files: CA, CAPLUS, TOXCENTER

Absolute stereochemistry.



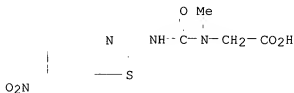
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 98:198237

REFERENCE 2: 98:72084

L23 ANSWER 180 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 84426-92-6 REGISTRY
CN Glycine, N-methyl-N-[[[(6-nitro-2-benzothiazolyl)amino]carbonyl]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C11 H10 N4 O5 S
LC STN Files: CA, CAPLUS, TOXCENTER



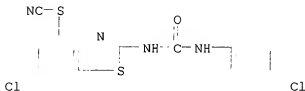
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 98:198237

REFERENCE 2: 98:72084

L23 ANSWER 181 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 66134-65-4 REGISTRY
 CN Thiocyanic acid, 6-chloro-2-[[[(4-chlorophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H8 Cl2 N4 O S2
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, TOXCENTER
 (*File contains numerically searchable property data)

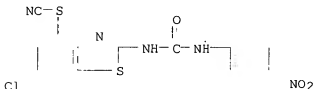


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

L23 ANSWER 182 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 64117-35-7 REGISTRY
 CN Thiocyanic acid, 6-chloro-2-[[[(4-nitrophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H8 Cl N5 O3 S2
 LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL

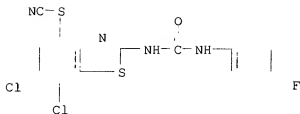


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 87:117846

L23 ANSWER 183 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 64002-20-6 REGISTRY
 CN Thiocyanic acid, 6,7-dichloro-2-[[[(4-fluorophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H7 Cl2 F N4 O S2
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

REFERENCE 2: 87:117846

L23 ANSWER 184 OF 196 REGISTRY COPYRIGHT 2002 ACS

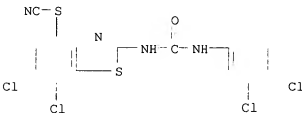
RN 64002-19-3 REGISTRY

CN Thiocyanic acid, 6,7-dichloro-2-[[[(3,4-dichlorophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C15 H6 Cl4 N4 O S2

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

REFERENCE 2: 87:117846

L23 ANSWER 185 OF 196 REGISTRY COPYRIGHT 2002 ACS

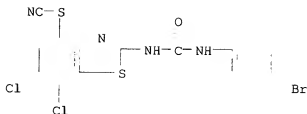
RN 64002-18-2 REGISTRY

CN Thiocyanic acid, 2-[[[(4-bromophenyl)amino]carbonyl]amino]-6,7-dichloro-4-benzothiazolyl ester (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C15 H7 Br Cl2 N4 O S2

LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



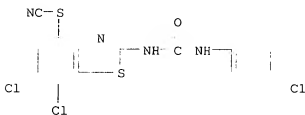
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

REFERENCE 2: 87:117846

L23 ANSWER 186 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 64002-17-1 REGISTRY
CN Thiocyanic acid, 6,7-dichloro-2-[[[(4-chlorophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H7 Cl3 N4 O S2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



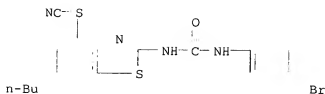
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

REFERENCE 2: 87:117846

L23 ANSWER 187 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 64002-16-0 REGISTRY
CN Thiocyanic acid, 2-[[[(4-bromophenyl)amino]carbonyl]amino]-6-butyl-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C19 H17 Br N4 O S2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



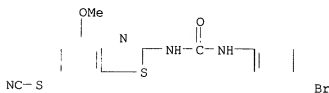
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

REFERENCE 2: 87:117846

L23 ANSWER 188 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 64002-14-8 REGISTRY
CN Thiocyanic acid, 2-[[[4-bromophenyl]amino]carbonyl]amino]-4-methoxy-6-benzothiazolyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H11 Br N4 O2 S2
LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

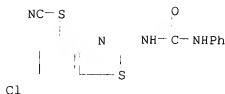


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 87:117846

L23 ANSWER 189 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 64002-13-7 REGISTRY
CN Thiocyanic acid, 6-chloro-2-[[[phenylamino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C15 H9 Cl N4 O S2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



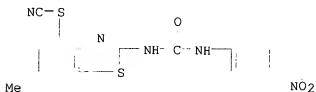
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

REFERENCE 2: 87:117846

L23 ANSWER 190 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 64002-12-6 REGISTRY
CN Thiocyanic acid, 6-methyl-2-[[[(4-nitrophenyl)amino]carbonyl]amino]-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C16 H11 N5 O3 S2
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, IFICDB, IFIPAT, IFIUBD, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1962 TO DATE)
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 88:152479

REFERENCE 2: 87:117846

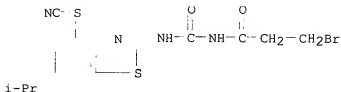
L23 ANSWER 191 OF 196 REGISTRY COPYRIGHT 2002 ACS
RN 51658-71-0 REGISTRY
CN Urea, N-[7-nitro-5-(trifluoromethyl)-2-benzothiazolyl]-N,N'-diphenyl- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C21 H13 F3 N4 O3 S
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 80:82772

L23 ANSWER 194 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 51335-49-0 REGISTRY
 CN Thiocyanic acid, 2-[[[(3-bromo-1-oxopropyl)amino]carbonyl]amino]-6-(1-methylethyl)-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C15 H15 Br N4 O2 S2
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)

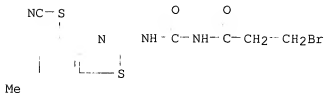


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 80:82772

L23 ANSWER 195 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 51335-48-9 REGISTRY
 CN Thiocyanic acid, 2-[[[(3-bromo-1-oxopropyl)amino]carbonyl]amino]-6-methyl-4-benzothiazolyl ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C13 H11 Br N4 O2 S2
 LC STN Files: BEILSTEIN*, CA, CAPLUS
 (*File contains numerically searchable property data)

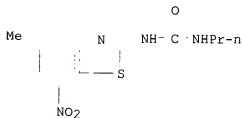


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 80:82772

L23 ANSWER 196 OF 196 REGISTRY COPYRIGHT 2002 ACS
 RN 28956-42-5 REGISTRY
 CN Urea, 1-(5-methyl-7-nitro-2-benzothiazolyl)-3-propyl- (8CI) (CA INDEX
 NAME)
 FS 3D CONCORD
 MF C12 H14 N4 O3 S
 LC STN Files: BEILSTEIN*, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL
 (*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1962 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

REFERENCE 1: 73:25446

=> d his

(FILE 'HOME' ENTERED AT 07:37:36 ON 07 OCT 2002)
 DEL HIS

FILE 'REGISTRY' ENTERED AT 07:38:07 ON 07 OCT 2002

L1 STR
 L2 50 S L1
 L3 STR L1
 L4 50 S L3
 L5 2370 S L1 FUL
 SAV L5 BOB777/A
 L6 STR L1
 L7 15 S L6 SAM SUB=L5
 L8 200 S L6 FUL SUB=L5
 SAV L8 BOB777A/A

FILE 'HCAOLD' ENTERED AT 07:41:32 ON 07 OCT 2002
 0 S L8

FILE 'HCAPLUS' ENTERED AT 07:41:36 ON 07 OCT 2002

L10 19 S L8
 E CUSACK K/AU
 E SCOTT B/AU
 L11 408 S E3-E24,E28-E36
 E CUSACK K/AU
 L12 11 S E4,E5
 E ARNOLD L/AU
 L13 41 S E3,E8,E9
 E ARNOLD LEE/AU
 L14 50 S E3-E5
 E ERICSSON A/AU
 L15 39 S E3,E5,E8,E9
 E KNOLL/PA,CS

L16 1270 S E3,E4
L17 1 S L10 AND L11-L16
L18 18 S L10 AND (PD<=20000207 OR PRD<=20000207 OR AD<=20000207)
L19 19 S L10,L17,L18

L20 FILE 'USPATFULL, USPAT2' ENTERED AT 07:44:35 ON 07 OCT 2002
5 S L8

L21 FILE 'HCAPLUS, USPATFULL' ENTERED AT 07:44:44 ON 07 OCT 2002
22 DUP REM L19 L20 (2 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 07:44:58 ON 07 OCT 2002

FILE 'HCAPLUS, USPATFULL' ENTERED AT 07:45:16 ON 07 OCT 2002

L22 FILE 'REGISTRY' ENTERED AT 07:46:03 ON 07 OCT 2002
STR L1
L23 196 S L22 FUL SUB=L8
SAV L23 BOB777B/A

L24 FILE 'HCAPLUS' ENTERED AT 07:47:46 ON 07 OCT 2002
14 S L23

L25 FILE 'USPATFULL, USPAT2' ENTERED AT 07:47:47 ON 07 OCT 2002
3 S L23

L26 FILE 'HCAPLUS, USPATFULL' ENTERED AT 07:47:52 ON 07 OCT 2002
16 DUP REM L24 L25 (1 DUPLICATE REMOVED)

FILE 'REGISTRY' ENTERED AT 07:48:00 ON 07 OCT 2002

FILE 'HCAPLUS, USPATFULL' ENTERED AT 07:48:20 ON 07 OCT 2002

FILE 'REGISTRY' ENTERED AT 07:48:39 ON 07 OCT 2002